Tech Center News®

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APRIL 22, 2019



Barra with the Corvette that will be auctioned for charity later this year.

Barra Shows Design of 'Vette That's Coming in Summer

It's not often people have a Footsteps to the Future Gala in chance to own a genuine piece of automotive history and help those in need. But that's exactly what the folks at General Motors are offering.

GM will auction the final-production, seventh-generation 2019 Chevrolet Corvette this summer, with the proceeds benefiting the Stephen Siller Tunnel to Towers Foundation.

This announcement, along with confirmation of the nextgeneration Corvette's development, was made last week by General Motors Chairman and CEO Mary Barra, who was honored at the foundation's annual

New York on April 11.

"GM, GMC and Chevrolet support the Stephen Siller Tunnel to Towers Foundation and its commitment to injured and fallen military members, first responders and their families," said Barra.

"The sale of this iconic Corvette will help the foundation continue its good work, and pave the way for the Next Generation Corvette that we will introduce on July 18.

The final seventh-gen Corvette – a black 2019 Z06 model – will be auctioned at the Barrett-Jack-

CONTINUED ON PAGE 5

New Cadillac Sedan Gets New York Debut

first chance to see the new Cadillac sedan as it was unveiled at the New York International Auto Show last week.

"Cadillac has recast the concept of American Luxury with the global debut of the unrivaled 2020 CT5 sedan," said Cadillac President Steve Carlisle.

This new compact sedan, said Carlisle, advances the brand's award-winning legacy with a distinctive fusion of design, performance and comfort, supported by Cadillac's latest technologies – including Super Cruise, the world's first true hands-free driver assistance feature for limitedaccess freeways.

"The first-ever Cadillac CT5 showcases Cadillac's unique expertise in crafting American luxury sedans," said Carlisle. "Its details elevate every drive and reward the senses.

A new fastback design underscores the CT5's refined ride, he said, complemented with a driver-centric interior that blends high technology and high-touch elements. Luxury and Sport models allow customers to tailor the car to their style preferences with unique design and trim, said Carlisle.

"Cadillac is dedicated to building the world's most exhilarating luxury sedans," Carlisle said. "Every element of the CT5 is focused on delivering an unrivaled experience, from the 10-speed transmission to Cadillac's Super

sion of Super Cruise to CT5 reinforces our commitment to bringing the most innovative technologies to our customers."

Cadillac CT5's Super Cruise technology will be available in calendar year 2020 on select models.

CT5 highlights:

- · At launch, the model range will include Luxury, Premium Luxury and Sport, with a Platinum package available on Premium Luxury and Sport models.
- A 2.0L Twin-Scroll Turbo engine is standard and Cadillac's 3.0L Twin-Turbo V6 is available on Premium Luxury and Sport models. Unique sound calibrations are tuned with the engines and each is paired with a

Cadillac gave the public its Cruise technology. The expan- 10-speed automatic transmission.

- The driving dynamics build on Cadillac's award-winning RWD architecture and include standard Driver Mode Control. AWD is available.
- The CT5 features the latest Cadillac user experience with a large 10-inch-diagonal screen, as well as intuitive controls, including a rotary controller.
- It also includes a host of comfort and convenience features, such as standard Adaptive Remote Start, cabin air purification ionizer and available frontseat lumbar massage.
- · Driver awareness technologies include standard Safety

CONTINUED ON PAGE 4



The public was able to get its first look at the CT5 in New York City.

The Mustang GT Performance Package edition has an EcoBoost engine.

LTU Earns a \$35,000 Grant **To Support Small Startups**

(NEI) has awarded a two-year grant of \$350,000 to Lawrence Technological University (LTU).

The grant is intended for the support of the Centrepolis Accelerator that will expedite the growth of small manufactures and emerging hardware startups in Southeast Michigan.

NEI is a philanthropic collaboration working to grow an inclusive culture of entrepreneurship in southeast Michigan.

Its aim is to benefit all residents and strengthen the regional economy, said LTU spokesman Matt Routh.

As a special project of the Community Foundation for Southeast Michigan, NEI is designed to act as a strategic grant maker, convener, and storyteller in its efforts to build and sustain

The New Economy Initiative a network of support for diverse entrepreneurs who are creating a better future for their communi-

> "We are so grateful for the NEI's partnership with LTU and their shared commitment to help strengthen the foundation of Michigan's manufacturing, product design and engineering heritage," said LTU President Virinder K. Moudgil.

> "NEI's two-year commitment provides LTU and the Centrepolis Accelerator the ability to offer in-depth client programs and resources, especially as we move forward with the opening of the accelerator's 6,300-square-foot facility on campus this fall."

> The grant enables the Centrepolis Accelerator to offer small

> > CONTINUED ON PAGE 2

Special Mustang Design Celebrates Power

When Ford introduced the new Escape, company officials said SUVs were a cornerstone of the company's future sales strategy. But that doesn't mean that the people at Ford have forgotten about the Mustang and Mustang

Strengthening Ford's performance reach for 2020 and just in time for the pony car's 55th anniversary, the new 2.3L High Performance Package for the entrylevel Mustang EcoBoost creates the most powerful four-cylinder sports car offered by an Ameriautomaker, said Ford spokesman Jiyan Cadiz.

This is the result of a unique EcoBoost engine powered by Ford Performance and upgraded handling components from the Mustang GT Performance Pack- Mustang team leveraged Ford's age, he said.

The Ford Performance Focus RS 2.3-liter engine is a highrevving marvel, and anyone who's driven this EcoBoost engine instantly loves how quickly it responds and delivers power," said Carl Widmann, Mustang chief engineer.

"When our team got the chance to try this specially built engine in a Mustang, we immediately agreed, 'We have to do

Reminiscent of development of the original Mustang in 1964, the car began as a five-person skunkworks project in the Ford Performance garage, Widmann said. Following an experiment with a Focus RS engine swap, the

quickening product development times to accelerate and complete the design-to-approval process for the 2.3L High Performance Package in under 10 months.

Available on the entry-level Mustang EcoBoost fastback coupe or convertible models this fall, the Mustang EcoBoost package, said Widman, was developed to feel at home both on thrilling mountain and coastal roads and even on the most precise autocross courses, thanks to its Mustang GT brakes, performance tires, and chassis and aerodynamics hardware from the Mustang GT Performance Pack-

CONTINUED ON PAGE 2

Auto Shanghai Brings Out the New Buicks

Buick's new Encore small SUV, Encore GX compact SUV and GL8 Avenir concept MPV made their global debut last week at 2019 Buick Brand Night in Shanghai.

They were joined by the VELITE 6 MAV electric vehicle, which was launched in China. All four products were on display at Auto Shanghai 2019.

The Encore models and VELITE 6 are part of Buick's plans to introduce eight new and refreshed products this year and more than 20 new and refreshed models between 2019 and 2023 in China, said Jean Liu-Barnocki, general director of Buick for SAIC-GM.

"Buick is focused on electrification, connectivity, intelligence and sharing as part of the Buick

Blue strategy in China," said Liu-tric vehicle and SAIC-GM's first Barnocki. "With the new models, Buick is starting a new journey in our largest market to build on our sales of 10 million vehicles integrates GM and SAIC's reover the past two decades."

As Buick's first global all-elec-

electric vehicle for the mass market, the VELITE 6 MAV (which stands for Multi-Activity Vehicle)

CONTINUED ON PAGE 2



The VELITE 6 MAV EV made its debut at the Shanghai auto show.

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LTU Earns Grant From NEI to Aid **Small Startups**

CONTINUED FROM PAGE 1

manufacturers and hardware innovators extensive technical support and professional resources to grow their businesses, said Roush.

This represents the second grant that the NEI has recently provided to Lawrence Tech University.

"Southeast Michigan is a worldwide leader in product innovation, engineering and manufacturing," said Maria LaLonde, senior program officer at NEI.

We are extremely excited to offer LTU support to help small manufacturers and hardware entrepreneurs with critical resources to keep them on the leading edge of innovation and growth.

"As a university-based accelerator program, LTU is also a key partner to engage and develop the next generation of students and leaders in design, engineering and manufacturing in Michi-

Buick Debuts Latest Technology at Shanghai Auto Show

CONTINUED FROM PAGE 1

sources and advanced technology in new energy and connected ve-

It represents the latest application of the Buick Blue strategy, said Liu-Barnocki.

The VELITE 6 is based on the VELITE concept new energy vehicle unveiled in November 2016. With a length of 4,650 mm, width of 1,817 mm, height of 1,510 mm and wheelbase of 2,660 mm, it provides a roomy interior with 1,098 liters of space, Liu-Barnocki said.

Its new-generation pure electric drive system offers a smooth, quiet and natural driving experience, Liu-Barnocki said. It generates a maximum 85 kW of power and 255 Nm of torque. The VELITE 6 has a combined electric driving range of 301 km in the city, and electricity consumption of 13.3 kWh/100 km.

The VELITE 6 is available in three variants at a price between RMB 165,800 and RMB 185,800 after national subsidies for new energy vehicles.

Following the earlier introduction of the LaCrosse hybrid electric vehicle and VELITE 5 extended-range electric vehicle, the VELITE 6 will enable Buick to cater to the rapidly growing demand for new energy vehicles, Liu-Barnocki said.

In addition, Buick has started its strategic cooperation with the EVCARD car-sharing brand to jointly explore the electric vehicle sharing market in China. The first 5,000 VELITE 6 vehicles will be put into operation by EVCARD starting April 28.

Inspired by the Buick Enspire concept SUV, which made its global debut a year ago, the all-new Encore and Encore GX integrate GM's advanced global R&D and intelligent manufacturing.

They come equipped with GM's eighth-generation Ecotec engines, along with a choice of a new ninespeed Hydra-Matic transmission or a new continuously variable transmission (CVT). The models offer highly efficient power with decreased fuel consumption and emissions compared to their predecessor, enabling them to meet China's 6-B emissions standard.

The Encore, Buick's first SUV built in China, originally went on sale in October 2012. The longwheelbase Encore GX is a new addition to the Encore lineup.

"From its introduction seven years ago, the Encore has resonated with younger consumers," said Ryan Vaughan, executive director of PATAC Design and GM China De-

With the two new additions, the Encore family will offer an unprecedented choice in its segment. It will provide our customers a more personalized offering to match their active and changing lifestyles."

Buick also announced at the auto show that the new Enclave will be introduced in China at the end of this year.

Together with the new Encore and Encore GX and popular Envision, it will give Buick a strong presence across small, compact, midsize and large SUVs - strengthening the brand's overall competitiveness in one of the market's hottest vehicle segments, Liu-Barnocki said.

The Buick GL8 Avenir concept

MPV was developed by GM's Pan Asia Technical Automotive Center (PATAC) joint venture in Shanghai.

It leverages the brand's knowledge of the high-end MPV market and deep insight of what consumers want – merging science, technology, art and luxury, the hallmarks of today's Buick portfolio, Liu-Barnocki said.

Paying homage to traditional Chinese ink painting, the interior has light gray and blackish-blue hues, complemented by a dark blue ceiling and high-quality finewoven light cashmere carpet. This interior highlights its heritage as well as its elegant and restrained artistic beauty, said Liu-Barnocki.



Buick's Encore GX compact SUV was introduced at the Shanghai Show.

Special Mustang Ecoboost Creates Special 'Stang Power

CONTINUED FROM PAGE 1

To make their project a reality, members of the Mustang team traveled to Valencia, Spain, home of the Ford Performance-tuned 2.3-liter engine, to convince plant management to build a new variant of the turbocharged fourcylinder specifically for Mustang.

Then, with the Ford Performance-designed engine as a starting point, they tuned the Eco-Boost to more broadly and responsively deliver a projected 330 horsepower and 350 lb.-ft. of torque achieved with premium fuel (per the SAE J1349 standard).

Having secured production of the die-cast alloy block and highperformance cylinder head, the engineering team specified a 5 percent larger 63-millimeter twinscroll turbo compressor and a larger radiator, then calibrated the engine to run both Ford's 10speed SelectShift automatic and 6-speed Getrag manual transmis-

Widmann said the 2020 Mustang 2.3L High Performance Package is designed to run 0-60 in the mid-four-second range on premium fuel, with top speed increasing to 155 mph, a 10 mph gain over the 2019 EcoBoost Performance Package and 34 mph

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faster than the base EcoBoost Mustang.

"It's not just the horsepower gains over the standard 2.3-liter EcoBoost," said Widman, "it's the broader torque curve that delivers 90 percent of peak torque between 2,500 and 5,300 rpm, which is 40 percent wider than the base EcoBoost engine.

holds "Plus. horsepower stronger up to the 6,500-rpm redline - enabling more usable power and torque for enthusiasts and weekend autocrossers to enjoy."

Helping to deliver 143 horsepower per liter, the new 2.3L High Performance Package includes a fully active quad-tip exhaust system with a signature tuned sound.

The new 2020 2.3L High Performance Package is meant to feel sharp and nimble, with an aggressive road-holding stance, near-balanced 53/47 weight dis-

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tribution and fully independent suspension, plus chassis and aerodynamic upgrades from the Mustang GT and its Performance Package. Widmann said.

For greater steering precision, the team added an alloy strut tower brace to stiffen the chassis at the front. To improve stopping power and fade resistance, the 2.3L High Performance Package adds larger four-piston fixed calipers with 13.9-inch front rotors from Mustang GT. It features a 32-millimeter sway bar up front and a tubular 21.7-millimeter bar at the rear.

New performance calibration tuning is applied to the electronic-controlled power steering, antilock braking, stability control and five driver-selectable drive modes. For improved cornering, a 3.55:1 limited-slip rear axle is included, plus package-specific 19x9-inch machined-face aluminum wheels and 255/40R summer tires.

Technology is not limited to horsepower, Cadiz said. Ford-Pass Connect, now standard on Mustang for 2020, allows owners to interact with their vehicles via a smartphone. Using FordPass Connect's phone application, owners can locate their parked car, lock and unlock it, and check vehicle status, such as fuel, oil levels and maintenance alerts.

For automatic transmissionequipped Mustang models, the system has a remote start feature. The availability of these features varies by market.

The 2020 Ford Mustang with 2.3L High Performance Package arrives at dealerships this fall.

Warren Library Hosting a Baker

Lisa Ludwinski will discuss her book, "Sister Pie: The Recipes & Stories of a Big-Hearted Bakery in Detroit" on Thursday, May 16, at 6 p.m. at the Miller branch of the Warren library system.

The book details how Ludwinski started her bakery, Sister Pie, out of her parents' kitchen in 2012. The brick and mortar store opened two-and-a-half years later. She was recently named as a finalist for the 2019 James Beard Award.

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APRIL 22, 2019 COVERS THE TECH CENTER AND THE IMMEDIATE AREA

Spring Road Construction Season Has Arrived

weather has arrived, road construction around Warren has be-

Road work will be done around the Warren Civic Center, and eastbound I-696 will undergo work until the end of August.

Tina Gapshes, Environmental Compliance engineer for the Warren Department of Engineering, said that this year, as part of Mayor James Fouts' commitment to maintaining and improving the City of Warren's infrastructure, storm drainage and pavement improvements are scheduled to begin in the Warren Civic Center area. The project is scheduled to start on or around April 22, and is expected to be completed by Oct. 1, weather permitting.

The Angelo Iafrate Construction Company has been awarded the contract to complete this work.

Infrastructure improvements include the following work:

- Completion of the Civic Center storm drainage system, which includes the installation of a 60" and 66" diameter storm sewer from Civic Center Drive just north of Common Road to the Bear Creek Drain North of 13 Mile Road.
- Concrete reconstruction of northbound and southbound Washington Boulevard pavement from 13 Mile Road to Kennedy Circle North.
- Concrete reconstruction of

from Civic Center Drive to Kennedy Circle.

- Concrete reconstruction of the Civic Center Drive north from Van Dyke to Common Road.
- Asphalt resurfacing Kennedy Circle north from Van Dyke to Common Road. Pavement rehabilitation will include select curb & gutter replacement and asphalt resurfacing.
- · Also included in the project are miscellaneous storm drainage improvements, ADA sidewalk ramp improvements and some complete or partial drive approach replacements.

During the construction, residents can expect temporary road, driveway and sidewalk closures as work progresses.

These types of closures will be coordinated in advance with the property owners and the field staff assigned to the project and notices will be sent out in advance of the closures.

Residents within the project limits are asked to keep their vehicles parked all the way up their driveways or on adjacent streets. These driveways and sidewalks will be patched and maintained until permanent repairs can be done.

Generally, construction work hours will be 7 a.m. until 7:30 p.m. Monday thru Saturday. Work hours may also be extendeastbound and westbound ed and include Sundays if work



Additional work on I-696 will continue through the month of May.

falls behind schedule due to weather conditions or other unforeseen conditions.

Meanwhile, the Michigan Department of Transportation (MDOT) is continuing a long-term repair project on I-696 between Dequindre Road and I-94 in Macomb County, said Matthew Woods, spokesman for MDOT.

The work will include restoring the crossover locations, repairing barrier walls, freeway lighting, sewer work, joint sealing, installing asphalt shoulders, and finishing diamond grinding. Work also will be performed on the I-696 service drives to repair the concrete surface and replace curbs and sidewalks.

The left lane of westbound I-696 from I-94 to Dequindre Road will be closed during weekdays with additional lane closures during overnights and weekends.

A variety of multiple lane closures throughout the route along eastbound I-696 from Dequindre Road to I-94 will be closed with traffic shifting depending on the work, Woods said.

These lane closures will change frequently. Some lane closures also will cause short-term ramp closures.

Every effort will be made to keep as many lanes open during morning and afternoon drive time, Woods said. Eastbound and westbound I-696 service drives will have intermittent single lane closures between Couzens Avenue and I-94. There will be complete closures at various locations that will be announced ahead of time with posted detours.

Macomb County Suing For Sewer Break

PAGE 3

Macomb Interceptor Drain Drainage District (MIDD) has filed a lawsuit against three local construction and sewer operation firms, seeking to recoup losses incurred as a result of the 15 Mile Road Sewer Collapse, which occurred Dec. 24, 2016, said county spokesman Dan Heaton.

The collapse resulted in more than \$70 million worth of repair costs, displaced more than 20 families over the Christmas holiday and closed a portion of 15 Mile Road on the border between Fraser and Clinton Township for nearly all of 2017.

On Dec. 19, 2018, Macomb County Public Works Commissioner Candice S. Miller provided a presentation to Oakland Macomb Interceptor Drain Drainage District commissioners.

The presentation confirmed that a comprehensive review had revealed that as a direct result of a contractor's negligent failure to follow, and flagrant deviation from, the mandatory flow control protocols, Heaton said, at least eight water hammer and pressure surge events occurred in the MIDD, with major impacts in the direct vicinity of the catastrophic collapse of the 15 Mile Road interceptor on Dec. 24, 2016.

The water hammer and pressurge events directly sure caused the collapse, they said.



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2019 Lincoln Navigator

2019 Chevrolet Tahoe

2019 Chrysler Pacifica

Good Housekeeping Seal of Approval Vehicles

Different vehicles appeal to different demographics, and Good Housekeeping has come up with its own list of best vehicles, based on a criteria oriented toward family needs.

Vehicles named by Good include Housekeeping Chrysler Pacifica, the Lincoln Navigator, the Buick Enclave, the Chevrolet Tahoe and the Chevrolet Traverse.

The Good Housekeeping Institute (GHI) worked with Car and Driver to screen hundreds of new vehicles and identify the top makes and models for 2019, said Laurie Jennings, Good Housekeeping Institute Director & Lead Consumer Tester.

GHI experts logged more than 5,000 miles on test tracks and open roads while assessing the top priorities drivers value in a vehicle: safety, value, handling, interior design, comfort and onboard technology.

To select the best vehicles, engineers, analysts and consumers evaluated several features such as the ease of folding and stowing seats, storage and trunk cargo space, as well as the fit and installation of child safety seats. Bonus points were awarded for new technology such as handsfree liftgates and features that improve the driving experience.

The Chrysler Pacifica was named the 2019 Best New Car award winner in the Minivan category. Last year, the Chrysler Pacifica Hybrid took home the 2018 Best New Car in the Hybrid

"It's the ultimate family vehicle with all the useful features you want, at an unbeatable value," savs Rachel Rothman, Good Housekeeping Chief Technologist & Engineering director.

The Lincoln Navigator was named Best New Luxury Large

Judges wrote that it "is the best Lincoln in a while. The super-sized SUV prioritizes style and design just as much as space and function.'

They also liked it because "it's all about comfort when it comes to the interior: there's an impressive amount of legroom in the second and third rows, a whopping 13 cupholders and tons of storage both for passengers and in the cargo area. And if you want the ultimate upgrade for long roadtrips you can even get 30way massaging front seats.

The Chevrolet Tahoe was the winner in the Best New Large SUV category. Judges also liked the Tahoe's third row for extra seats. They called it the best of both worlds, a utility-centric vehicle that also makes for a comfortable family ride.

'Chevrolet has been the bestselling brand of fullsize SUVs for four decades, because we have

continually offered buyers a compelling combination of performance, capability, and reliability," said GM spokesman Monte Doran. The current Tahoe is no exception, offering up to 95 cubic feet of storage, 8,600 pounds towing capacity, and 23 miles per gallon with the 420-hp, 6.2L V8 engine."

GM got double honors in the Best New Midsize SUV category. Good Housekeeping named both the Buick Enclave and the Chevrolet Traverse as top vehicles in that category.

Judges liked the Traverse because it makes for a great large family vehicle that "packs everything you love about a hardworking SUV into a practical ride that can fit your crew and their gear."

Judges also praised the Traverse, calling it "the perfect ride if you need a ton of cargo space for the whole family."

The Enclave was praised for the fact that it gives drivers and passengers "one of the roomiest three-row vehicles available in this category and boasts a good amount of space for cargo and small items.

To see more on Good Housekeeping's 2019 Best New Car Awards, visit goodhousekeeping.com/2019carawards.

New York Auto Show Gets Cadillac Debut

CONTINUED FROM PAGE 1

Alert Seat and Cadillac's latest generation available Rear Camera Mirror with zoom and tilt adjustment.

- Standard driver assistance technologies include Forward Collision Alert, Low Speed Forward Automatic Emergency Braking and Front Pedestrian Braking.
- Available driver assistance technologies include Advanced Adaptive Cruise Control, Enhanced Forward Automatic Emergency Braking, Automatic Parking Assist with Braking, HD Surround Vision with Recorder, Rear Pedestrian Detection and Alert, Reverse Automatic Braking and more.

Engineering and technology is nice, Carlisle said, but Cadillacs are also known for their style. The CT5, with a fastback profile, was inspired by the Escala concept. The first-ever CT5 charts a new direction for Cadillac sedan design that leverages the natural proportional advantage of the vehicle's rear-drive platform to communicate power, presence and performance, he said.

"From every angle," Andrew Smith, executive director of Global Cadillac Design, "the CT5 exudes athleticism, sophistication and confidence. Cadillac's signature hard-edge cues have evolved to a more sculptural and fluid expression of the brand's design language."

A long, 116-inch wheelbase and lengthened side glass accentuate the car's long, low proportion and sweeping fastback profile, Smith said, noting that the body sculpturing, including taut character lines, contributes to the car's strong stance.



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Meeting 1: 7:00 - 7:50 a.m. (breakfast included) Meeting 2: 11:30 a.m. - 12:20 p.m. (lunch included)

Location: Detroit Marriott at the Renaissance Center (400 Renaissance Dr., Detroit, MI 48243)

TUESDAY, APRIL 16, 2019 -

Meeting 1: 7:00 - 7:50 a.m. (breakfast included) Meeting 2: 11:30 a.m. - 12:20 p.m. (lunch included)

Location: Courtyard by Marriott Detroit Warren (30190 Van Dyke Ave., Warren, MI 48093)

Visit www.KaydanWealthManagement.com for a complete list of all future meetings and events.



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FORBES 2019 **BEST-IN-STATE** WEALTH **ADVISORS**

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Barra Shows Design of 'Vette That's Coming in Summer

CONTINUED FROM PAGE 1

son Northeast sale in Connecticut June 28. Registration information is available at www.barrett-jackson.com.

Every dollar of the winning bid, said Barra, will go to the Stephen Siller Tunnel to Towers Foundation, named for New York City firefighter Stephen Siller, who died during the Sept. 11 attacks.

The foundation builds mortgage-free, accessible smart homes for the most catastrophically injured service members and helps pay off the mortgages for families of first responders killed in the line of duty. More information is available at www.tunnel2towers.org.

"The Stephen Siller Tunnel to Towers Foundation thanks GM, GMC and Chevrolet for supporting the brave men and women of our armed forces and our first responders," said Frank Siller, the foundation's chairman and CEO. "This generous gift will help us

provide more injured veterans with the independence they de-

For the past five years, GMC has supported the Stephen Siller Tunnel to Towers Foundation as its national foundation of choice. In that time, it has helped the foundation raise more than \$10

That includes \$2.2 million raised last year, with \$925,000 of it coming from the auction of the first production 2019 Corvette

It was purchased by Chevrolet dealer and NASCAR team owner Rick Hendrick at the 2018 Barrett-Jackson Scottsdale sale.

Other money has come from employee donations and events across the country such as 5K Tunnel to Towers races and other activities sponsored by GMC dealers.

"GM is committed to helping those who have given so much for their country," Barra said.

GM's current and retired workforce includes 60,000 veterans.



Huron County's wind turbines are one way GM produces clean energy.

GM Produces Green Power

Durant summed up some of Aristotle's work by writing, "We are what we repeatedly do. Excellence is not an act, but a habit."

General Motors last week again repeatedly received its eighth 2019 ENERGY STAR Partner of the Year Sustained Excellence Award in Energy Management for continued leadership and superior contributions to ENERGY STAR.

GM's commitment to reducing energy intensity since 2010 has eliminated 1.5 million tons in carbon emissions, equivalent to the electric use of 260,000 homes for

The U.S. Environmental Protection Agency presents the Sustained Excellence Award to partners that have already received ENERGY STAR Partner of the Year recognition for a minimum criteria needed to qualify for recognition.

ENERGY STAR is the government-backed symbol for energy efficiency, providing simple, credible, and unbiased information that consumers and businesses rely on to make well-informed decisions.

Thousands of industrial, commercial, utility, state, and local organizations - including more than 40 percent of the Fortune 500 – rely on their partnership with the U.S. Environmental Protection Agency (EPA) to deliver cost-saving energy efficiency solutions.

Since 1992, ENERGY STAR and its partners helped save American families and businesses nearly 4 trillion kilowatt-hours of electricity and achieve over 3 billion metric tons of greenhouse gas reductions.

In 2017 alone, ENERGY STAR and its partners helped Ameri-

Historian and philosopher Will cans avoid \$30 billion in energy costs. More background information about ENERGY STAR can be found at energystar.gov/about and energystar.gov/numbers.

The ENERGY STAR is the highest honor an organization can receive from the EPA for energy management. In 2018, GM had 17 buildings ENERGY STAR-certified, including two data centers. It met the ENERGY STAR Challenge for Industry with eight additional facilities globally for a total of 135 recognitions, more than any other company, said GM spokeswoman Jennifer Ko-

"Energy efficiency is a key part of General Motors' strategy for a future with zero emissions," said Alfred J. Hildreth, global energy manager for GM. "While our comprehensive energy strategy integrates sustainable practices of two consecutive years and across our value chain for maxihave gone above and beyond the mum progress, our approach prioritizes reducing energy consumption through robust energy efficiency programs. We're honored to serve as an industry leader and are thankful for ENER-GY STAR's continued recognition.

> In 2010, GM committed to reducing its energy and carbon intensity by 20 percent by 2020, and in 2017, met and exceeded this goal ahead of schedule, Korail said.

> "Energy efficiency and conservation is a team effort, with each plant contributing to energy-related goals as part of its business plan," Hildreth said.

> "Teams share best practices and implement low cost/no cost initiatives identified in energy treasure hunts and use energy performance contracting for larger projects like LED lights, building management systems and variable speed drives on mo-

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Former VW CEO Winterkorn **Charged With More Crimes**

FRANKFURT, Germany (AP) -German prosecutors charged former Volkswagen CEO Martin Winterkorn and four others with fraud in the emissions cheating scandal that has helped turn many Europeans against diesel engines and accelerated the push toward electric cars.

Prosecutors said April 15 that Winterkorn knew about the scheme since at least May 2014 and failed to put a stop to it.

That contradicted his claim that he didn't learn about it until shortly before U.S. investigators announced it in September 2015. Winterkorn resigned as CEO five days later.

VW has admitted installing software in its diesel cars that turned on pollution controls when vehicles were being tested and switched them off during everyday driving. That made it look as if the cars met tough U.S. limits on harmful pollutants known as nitrogen oxides.

In all, some 11 million cars worldwide were equipped with the illegal software.

Prosecutors said the defendants – all top Volkswagen managers – were part of a deception that started in 2006.

The 71-year-old Winterkorn and the others, whose names were not released, face six months to 10 years in prison if convicted of aggravated fraud involving serious losses. Other charges include unfair competition and breach of trust.

Prosecutors said the defendants could also be forced to forfeit sales bonuses ranging from around \$340,000 to \$12.45 mil-

Winterkorn is already under indictment in the U.S. on charges of fraud and conspiracy to violate the Clean Air Act and could get up to 20 years in prison. But he cannot be extradited from Germany to the U.S.

Winterkorn's attorney, Felix Doerr, said that the defense could not comment on the German case because prosecutors had not provided adequate opportunity to review the case files. Prosecutors turned over seven DVDs with hundreds of file folders of material on April 5.

The case, consisting of a 692page indictment backed by 300 file volumes holding 75,000 pages, was filed in a local court in Braunschweig a little over a week ago. The court will decide if the case will proceed to trial.

Prosecutors said among other things that the defendants carried out a software update costing 23 million euros in 2014 to try to cover up the true reason for the elevated pollution during driving.

The prosecutors said they are still investigating 36 more suspects. Volkswagen's corporate involvement in the Braunschweig investigation ended last year with a 1 billion euro fine. Volkswagen noted that the indictment was against individuals and had no further comment.

The prosecutors' move is only one of the legal proceedings unleashed by the scandal.

Volkswagen has paid more than 27 billion euros (currently \$31 billion) in fines and civil settlements with authorities and car owners since getting caught.

The automaker apologized and pleaded guilty to criminal charges in the U.S., where two executives were sentenced to prison and six others charged, although they could not be extra-



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